

Table 4.1 – Projections of Renewable Electricity Net Capacity

(Gigawatts)

Renewable Energy	Data Sources	Projections				
		2005	2010	2015	2020	2025
Geothermal	AEO2005 - Reference Case	2.19	2.21	2.66	3.45	4.62
	AEO2005 - High Renewables		2.21		5.63	7.30
	EERE GPRA FY05		6.50	8.20	10.00	12.20
Wind	AEO2005 - Reference Case	8.18	8.88	9.29	10.45	11.25
	AEO2005 - High Renewables		8.88		11.63	13.97
	EERE GPRA FY05		14.60	32.30	63.90	67.70
Solar ¹	AEO2005 - Reference Case	0.61	0.98	1.14	1.60	2.72
	AEO2005 - High Renewables		0.99		1.80	3.23
	EERE GPRA FY05		2.20	5.20	13.60	26.50
Hydroelectric	AEO2005 - Reference Case	79.10	79.21	79.21	79.21	79.21
	AEO2005 - High Renewables		79.21		79.21	79.21
	EERE GPRA FY05		78.90	78.90	78.90	78.90
Biomass/Wood (excludes cogen)	AEO2005 - Reference Case	1.78	1.83	2.06	2.75	4.50
	AEO2005 - High Renewables		1.78		2.62	5.18
	EERE GPRA FY05		2.10	2.10	2.20	2.70
MSW and LFG	AEO2005 - Reference Case	3.68	3.83	3.89	3.92	3.93
	AEO2005 - High Renewables		3.83		3.96	3.97
	EERE GPRA FY05 ²		4.00	4.20	4.40	4.40
Total Renewable Energy	AEO2005 - Reference Case	100.18	102.09	103.80	107.56	112.99
	AEO2005 - High Renewables		102.42		112.37	121.57
	EERE GPRA FY05 ³		105.40	116.00	133.90	147.70

Sources: EIA Annual Energy Outlook 2005, DOE/EIA-0383 (2005) (Washington, D.C., February), Tables A16 and E7. U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, *Projected Benefits of Federal Energy Efficiency Programs: FY2005 Budget Request*, prepared by the National Renewable Energy Laboratory, NREL/TP-620-36407 (May 2004).

Notes: OnLocation GPRA05 benefits estimates do not estimate any programmatic influence on biomass power since the biomass program has been redirected away from biomass power to integrated biorefinery technologies. Total represents portfolio case values, while individual program values represent each program case. The portfolio case accounts for program interactions and micro-price feedback effects.

¹ Solar thermal and photovoltaic energy.

² EERE does not have an R&D program for Biomass, LFG/MSW and thus are not included in GPRA projections

³ Biomass, MSW and LFG are not included in the portfolio value. The portfolio values do not equal the summed values of the individual programs, as the portfolio analysis accounts for program interactions and micro-price feedback effects. Total includes biomass combined heat and power and on-site electricity-only plants for industrial and commercial sectors not detailed above.